

Patent Abstracts of Japan

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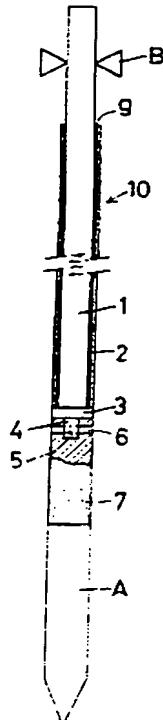
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APPLICANT : SUMITOMO ELECTRIC IND LTD;

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TITLE : DUMMY ROD FOR HOLDING OPTICAL FIBER PREFORM



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ABSTRACT : PURPOSE: To obtain an inexpensive dummy rod useful in a wire drawing furnace, etc., for an optical fiber preform, etc., without atmospheric pollution, by mechanically connecting specific two rods and covering the whole outer periphery except part thereof with a pipe, such as quartz glass, in a loose fit state.

CONSTITUTION: The tip of the first dummy rod 1 formed from a heat-resistant material, (e.g. metal or ceramic) other than quartz glass or multicomponent glass is mechanically connected to the second dummy rod 7 made of quartz (multicomponent) glass with a protrusion 4, pinhole 5, pin 6 made from a heat- resistant material, such as titanium, of the rod 1, etc. Almost the whole outer periphery except the chucking point by a holding tool (B) of the rod 1 is then covered with a pipe 2 made of quartz (multicomponent) glass so as to provide a space (g) present between the pipe 2 and the outer periphery of the rod 1 in a loose fit state and prevent the pipe 2 from moving to the side of the rod 7 with a stopper 3. A preform (A) is then fused and connected to the tip of the rod 7 to form the aimed dummy rod 10 for holding an optical fiber preform.

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